

Replacement sheet

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Figure 1: Comparison of the narGHJI promoter of *M. tuberculosis* (TB), *M. bovis* (*bovis*) and *M. bovis* BCG (BCG)

[illegible]

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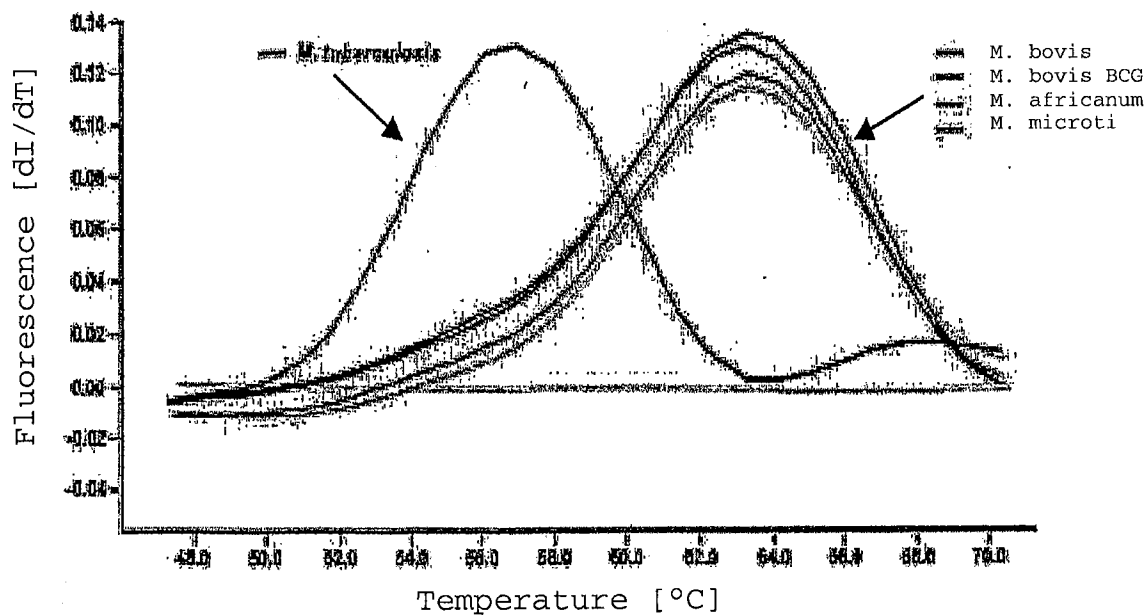


Figure 2

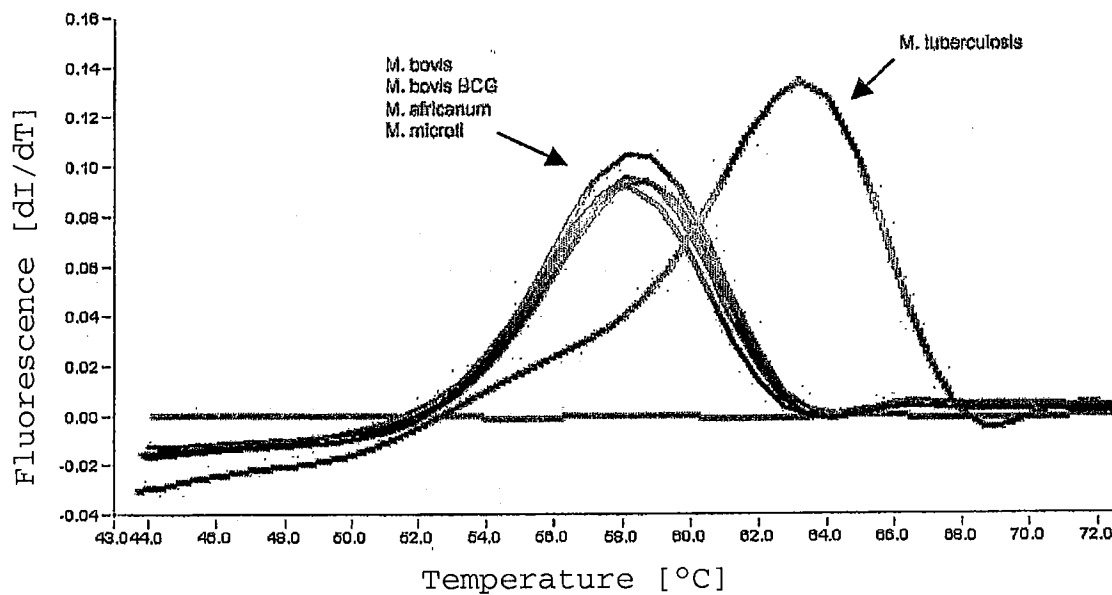
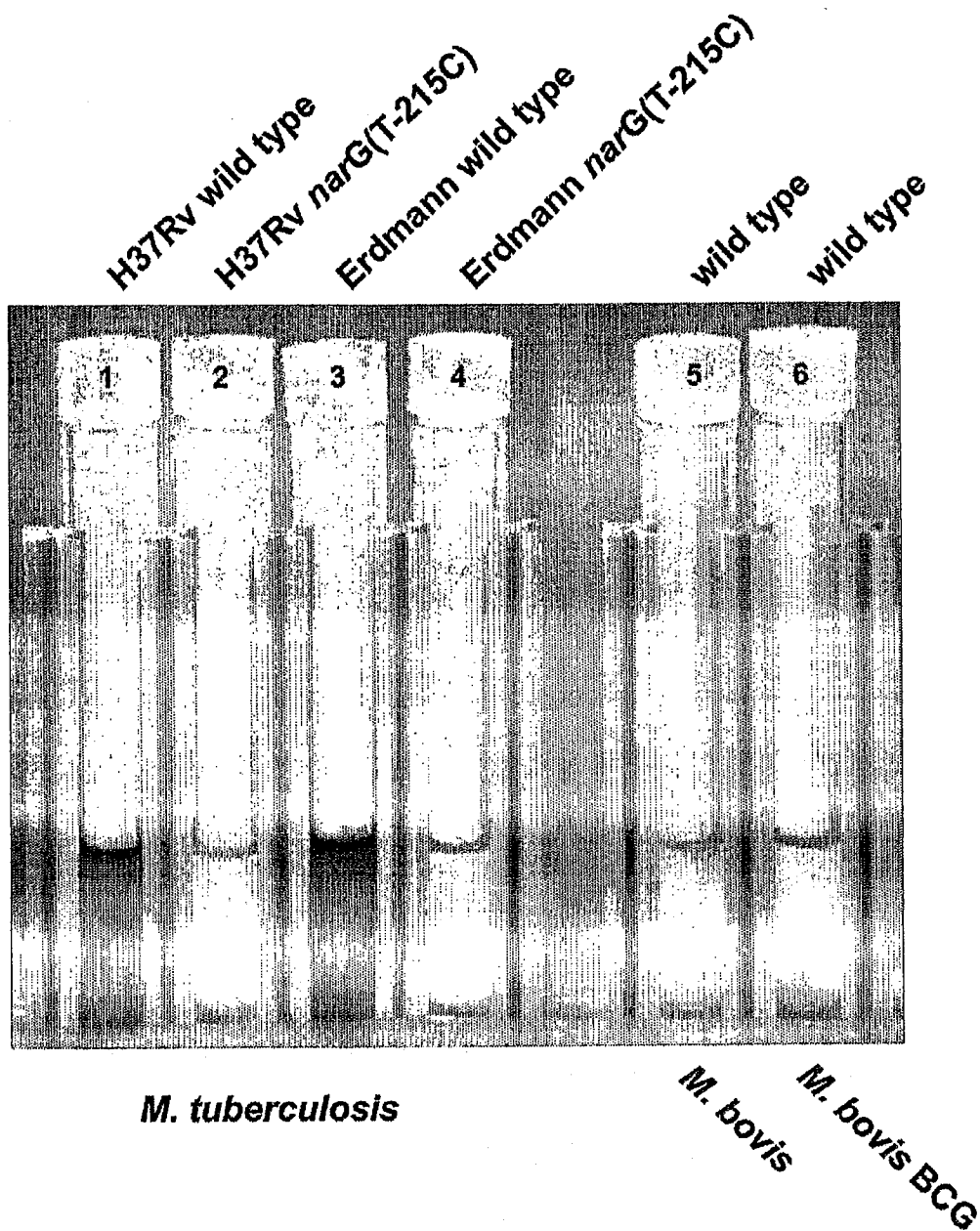


Figure 3

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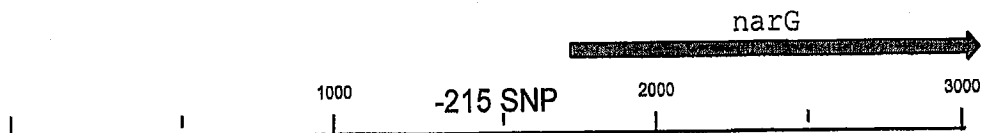
Figure 4: nitrate reductase assay: *M. tuberculosis* wild type and mutants, *M. bovis* and *M. bovis* BCG in comparison



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Figure 5: -215 SNP with 150 bp flanking sequences



1500 bases upstream and downstream of the -215 SNP
("T") in the promotor of the narGHJI operon:

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CTCGGGTGTCAGATTGACGCCGCGATTACCGCTGTCTACCTCGTCGGCGTTTCGGCGGTT      60
GCATGCGGCCGCAATTTTCGGTGGTCTGTTCCTTGCCACCGTCGGCGTGTCTACTGGT      120
CGTCGGCGATGAAGCCCGCTACTACTTCACCGACCTGTGGGCGACGCAGGCCGGGTTGG      180
GCCCATCGCCACCTCCTTCAATCAATCCTGGCGCGGCGGATTTCCTCGGATTCTCGGTCA      240
CGACGCCGGTTTTGGTCCGCTGGTCTTGGCTGCGATCGCCAGTACGGCGGTATTGGCCAT      300
CCTGGCCTGGCGTGCCTCGACAGGTCCGATCGGCTGGGCAAACTATTGGTGGTTCGAGTT      360
GTCGGCCTGCTGCTCTCGCCGATCTCCTGGACTCACCCTGGGTGTGGCTAGTGCCGCT      420
GATGATCTGGCTGATTGACGGGCCAGCGCGTGAGCGCCCGGGCGCCCGGATTTCGGGCTG      480
GGGCTGGTTGGTGTGACCATCGTCGGCGTGCCGTGGTGTGCTGAGCTTTGCTCAACCGAG      540
CATCTGGCAAATCGGCCGGCCGTGGTATTTCGGCCTGGGCGGGTCTGGTCTACGTGGTGGC      600
GACGCTGGCGACCTTGGGCTGGATCGCCGCTCCGAGCGTTACGTGCGCATTCGGCCGCG      660
GCGCATGGCCAATTAGGCCCAACATTGCGTCGATATCGTGCGCCATCGCAATGTCTGTT      720
TTCGCTGATACCACTACCGCATGCGTAACAGCGCGAAAGTTACTGTTTCGCCAACGGAT      780
ATCGATGTCCGGATGATGATTTACCTCCTCGGCTCGCTCGGCCACCCGGCGTACGGCGTC      840
GATACCGGCCATAAACGTCGGAACTTGATTGACCTACGCAGGACACCACCGCGCGCTG      900
CCAGCCGTTGAGGTCTGTGAGTGCAGTGCAGCGTGCACCTGCTCATCCGTTAACACAGCCATACC      960
TCGACGGTATACCGTACAGGTCATGCTGAATCAGATCGTGGTTGCCGGAGCCATCGTCC      1020
GCGGTTGCACGGTCTTGGTGGCGCAACGCGTTTCGGCCACCGGAGTTGGCGGGTCTGTTGGG      1080
AACTTCCCGGCGGTAAGGTTCGCCGCGGCGAAACCGAGCGCGCGCGCTGGCCCGAGAGC      1140
TCGCCGAAGAACTGGGACTCGAGGTTCGCCGACCTCGCGGTGGGCGACCGTGTGGGCGACG      1200
ATATTGCGTTGAACGGCACGACGCTGCGGGCCTATCGCGTGCATCTGCTTGGCGGCG      1260
AACCGCGTGCAGCGTACACCGGGCGCTGTGCTGGGTGACGGCGGCCGAAGTGCACGATG      1320
TCGACTGGGTACCGACCGCGCGCTGGATTGCGGACCTGGCGCGAACCCTCAACGGGT      1380
CCGCCGAGATGTCCACCGTCTGTTAGGAAACCGACGCTGTGGTTGACGGTGGCCGCC      1440
GTCAACTTGGTTAGAACACGTGACAAAACGTTAACTTGGGTTTGATGCGCCGTAGCGAT      1500
TACGATGGTTTTCTGACCGCGTGGCGACAACCTTCGGGCGAGGACGCTGACGCCCATCCAT      1560
CGAGATACCGGATGTTGACGAGAGGGGTCCCGACCGCGGACCGGGGCTTGACGGGCG      1620
CAATGCGGCGCGGCCCGGCCAGCCCGTAACGTCCAGCGAGTCCGGTTCGCGCGCCGACGGCC      1680
CGGCCCCACACCGCTCATGACGAGGAGGGTCATCCCGTGACCGTTACACCTCACGTCCGT      1740
GGACCGCTCGAAGAGCTGCTGGAGCGCAGCGGGCGCTTCTTACCCAGGTGAGTTCTCG      1800
GCCGACCTGCGCACCGTAACCCGGCGCGCGCGCGCGAAGGTGACGTGTTCTACCGCGAT      1860
CGGTGGAGTCACGACAAAGTGGTCCGATCCACGACGAGTCAACTGCACCGGATCCTGC      1920
TCATGGAAGATCTACGTCAAAGACGGGATCATCACCTGGGAAACCCAGCAGACCGACTAC      1980
CCGTCCGTGGGCCCCGACCGGCCCGAATACGAGCCACGAGTTGTCCCGTGGCGCGTTCG      2040
TTCTCCTGGTACAGCTATTTCGCCGACCGGGTGCCTATCCGTATGCCCGGGCGTGTCTG      2100
GTTGAGATGTACCGGAAGCCAAGACCCGCTGGGCGACCCGGTGTGGCGTGGGCCGAC      2160
ATTGAGGCGGATCCCGAGCGCAGACCGCGCTATCAACAGGCCCGCGCGCAAGGTGGGCTG      2220
GTCCGGGTGAGCTGGGCGGAGGCCAGCGAGATGGTGGCGCGCCACGTGCACACCATC      2280
AAGACATACGGCCCGGACCGGGTTCGCCGCTTCTCGCCGATTCCGGCGATGTCAATGGTC      2340
AGCCATGCCGCGGGGTCGCCGTTCTGAGAGCTGATCGGCGCGGTGATGACGTCTGTTCTAC      2400
GACTGTTACGCCGACTTGCCGGTGGCCTCGCCGCGAGGTGTTTCGGCGACCGACCGACGTG      2460
CCCGAATCCGGCGACTGGTGGGATGCGTCTGATTTGGTTCATGTGGGGCTCCAACGTCCCG      2520
ATCACCCGACGCCCGACGCACATTGGATGGCGGAGGCCCGTTACCGCGCGCTAAAGTC      2580
GTTGTCGTGAGCCCGGACTACGCCGACAAACCAAGTTTCGCCGACGAGTGGGTGCGGTGC      2640
GCCGCCGGTACCGATACCGCGCTGGCGATGGCGATGGGCCACGTGATCCTGTTCGGAATGT      2700
TACGTCCGTAACCGAGTTCCGTTCTTTGTGACTATGTGCGCGCTACACCGACCTGCCG      2760
TTTTTGTATCAAGTTGGAAAAGCGGGGCGACCTGCTGGTTCGCCGAAAGTTCTTGACCGCG      2820
GCCGACATTGGTGAAGAAAGTGAGAACGCGCGGTTCAAACCCGCCCTGCTGGATGAGCTT      2880
ACGAATACCGTTGTGTCGCCGAGGGCTCACTGGGATTCCGTTTCGGTGGAGACGGTGT      2940
GGGAAGTGAACCTGGACCTGGGTTTCGGTGGTGCCGCGCTAAGTGTGGAGATGGACAAG      3000
GC
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